

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

TINKU ACHARYA

Application No.:

Filed: September 15, 2003

For: **FOUR-COLOR MOSAIC PATTERN FOR  
DEPTH AND IMAGE CAPTURE**

Art Group:

Examiner:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

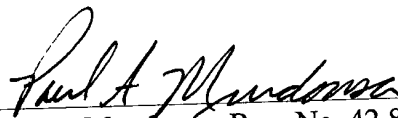
In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted concurrently with the Continuation-in-Part Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Some or all of the references listed on the enclosed PTO/SB/08 were previously identified in the parent application (Application No. 10/376,156, filed February 28, 2003) and copies of the references were furnished at that time. Accordingly, per 37 CFR §1.98(d)(1) additional copies of those references are not submitted herewith.

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP



Paul A. Mendonsa, Reg. No. 42,879

Date: September 15, 2003

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Los Angeles, California 90025  
(503) 684-6200

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			Complete if Known Application Number _____ Filing Date <b>September 15, 2003</b> First Named Inventor <b>Tinku Acharya</b> Art Unit _____ Examiner Name _____ Attorney Docket Number <b>42P17531X</b>		
Sheet	1	of	9		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number - Kind Code* (if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-5,875,122	02-23-1999	Acharya	
	2	US-5,995,210	11-30-1999	Acharya	
	3	US-6,009,201	12-28-1999	Acharya	
	4	US-6,009,206	12-28-1999	Acharya	
	5	US-6,047,303	04-04-2000	Acharya	
	6	US-6,091,851	07-18-2000	Acharya	
	7	US-6,094,508	07-25-2000	Acharya et al.	
	8	US-6,108,453	08-22-2000	Acharya	
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	17	US-6,215,908 B1	04-10-2001	Pazmino et al.	
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	19	US-6,229,578 B1	05-08-2001	Acharya et al.	
	20	US-6,233,358 B1	05-15-2001	Acharya	

FOREIGN PATENT DOCUMENTS					
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		Filing Date	<b>September 15, 2003</b>
		First Named Inventor	<b>Tinku Acharya</b>
		Art Unit	
		Examiner Name	
Sheet <b>3</b>	of <b>9</b>	Attorney Docket Number	<b>42P17531X</b>

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
	39	TINKU ACHARYA, "A Memory Based VLSI Architecture for Image Compression," Filed 6/30/1997, Application No.: 08/885,415, pp. 1-36, Atty. Docket No.: 042390.P4425.	
	40	BAWOLEK ET AL., "Infrared Correction System," Filed 7/30/1998, Application No.: 09/126,203, pp. 1-23, Atty. Docket No.: INTL-0072-US (P6172).	
	41	PAZMINO ET AL., "Method of Compressing and/or Decompressing a Data Set Using Significance Mapping," Filed 9/11/1998, Application No.: 09/151,336, pp. 1-26, Atty. Docket No.: 042390.P6391.	
	42	TAN ET AL., "Robust Sequential Approach in Detecting Defective Pixels within an Image Sensor," Filed 11/13/1998, Application No.: 09/191,310, pp. 1-35, Atty. Docket No.: 042390.P6575.	
	43	ACHARYA ET AL., "Color Interpolation for a Four Color Mosaic Pattern," Filed 11/24/1998, Application No.: 09/199,836, pp. 1-26, Atty. Docket No.: 042390.P6376.	
	44	TAN ET AL., "Using an Electronic Camera to Build a File Containing Text," Filed 4/29/1999, Application No.: 09/301,753, pp. 1-21, Atty. Docket No. 042390.P5742.	
	45	TSAI ET AL., "Method and Apparatus for Adaptively Sharpening an Image," Filed 5/26/1999, Application No.: 09/320,192, pp. 1-29, Atty. Docket No.: 042390.P6452.	
	46	TAN ET AL., "Method and Apparatus for Adaptively Sharpening Local Image Content of an Image," Filed 6/09/1999, Application No.: 09/328,935, pp. 1-29, Atty. Docket No.: 042390.P7125.	
	47	TAN ET AL., "A Hardware Efficient Wavelet-Based Video Compression Scheme," Filed 6/29/1999, Application No.: 09/342,863, pp. 1-32, Atty. Docket No.: 042390.P6529.	
	48	TAN ET AL., "A Methodology for Color Correction with Noise Regulation," Filed 7/23/1999, Application No.: 09/359,231, pp. 1-30, Atty. Docket No.: 042390.P7320.	
	49	ACHARYA ET AL., "Image Processing Method and Apparatus," Filed 7/23/1999, Application No.: 09/359,523, pp. 1-16, Atty. Docket No.: INTL-0237-US (P7323).	
	50	ACHARYA ET AL., "Zerotree Encoding of Wavelet Data," Filed 9/03/1999, Application No.: 09/390,255, pp. 1-22, Atty. Docket No.: INTL-0210-US (P7057).	
	51	ACHARYA ET AL., "A Fuzzy Based Thresholding Technique for Image Segmentation," Filed 9/10/1999, Application No.: 09/393,136, pp. 1-28, Atty. Docket No.: 042390.P7114.	
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			Examiner Name		
Sheet	4	of	9	Attorney Docket Number	42P17531X

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	53	TINKU ACHARYA, "Video Motion Estimation," Filed 9/27/1999, Application No.: 09/406,032, pp. 1-24, Atty. Docket No.: INTL-0260-US (P7330).		
	54	ACHARYA ET AL., "Method of Intetpolating Color Pixel Signals from a Subsampled Color Image," Filed 10/01/1999, Application No.: 09/410,800, Atty. Docket No.: 042390.P7331.		
	55	ACHARYA ET AL., "Method of Compressing a Color Image," Filed 10/01/1999, Application No.: 09/411,697, pp. 1-26, Atty. Docket No.: 042390.P7463.		
	56	ACHARYA ET AL., "Square Root Raised Cosine Symmetric Filter for Mobile Telecommunications," Filed 10/29/1999, Application No.: 09/429,058, pp. 1-26, Atty. Docket No.: INTL-0280-US (P7629).		
	57	TINKU ACHARYA, "Discrete Filter," Filed 11/02/1999, Application No.: 09/432,337, pp. 1-16, Atty. Docket No.: INTL-0277-US (P7626).		
	58	ACHARYA ET AL., "Indexing Wavelet Compressed Video for Efficient Data Handling," Filed 11/10/1999, Application No.: 09/438,091, pp. 1-29, Atty. Docket No.: INTL-0261-US (P6454).		
	59	TINKU ACHARYA, "Method of Upscaling a Color Image," Filed 12/14/1999, Application No.: 09/461,080, pp. 1-22, Atty. Docket No.: 042390.P7489.		
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	62	MIAO ET AL., "Dual Mode Filter for Mobile Telecommunications," Filed 11/18/1999, Application No.: 09/467,611, pp. 1-31, Atty. Docket No.: INTL-0324-US (P8027).		
	63	METZ ET AL., "Image Processing Architecture," Filed 12/28/1999, Application No.: 09/473,643, pp. 1-16, Atty. Docket No.: INTL-0322-US (P8050).		
	64	TINKU ACHARYA, "A Block-Matching Algorithm for Color Interpolation," Filed 1/28/2000, Application No.: 09/494,087, pp. 1-45, Atty. Docket No.: 042390.P5090D.		
	65	ACHARYA ET AL., "Method of Inverse Quantizing Quantized Signal Samples of an Image During Image Decompression," Filed 2/18/2000, Application No.: 09/507,213, pp. 1-32, Atty. Docket No.: 042390.P8350.		

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				First Named Inventor <b>Tinku Acharya</b>	
				Art Unit	
				Examiner Name	
Sheet	<b>5</b>	of	<b>9</b>	Attorney Docket Number <b>42P17531X</b>	

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	66	ACHARYA ET AL., "Method of Quantizing Signal Samples of an Image During Image Compression," Filed 2/18/2000, Application No.: 09/507,399, pp. 1-24, Atty. Docket No.: 042390.P7135.		
	67	ACHARYA ET AL., "Method of Integrating a Watermark into an Image," Filed 3/06/2000, Application No.: 09/519,874, pp. 1-27, Atty. Docket No.: 042390.P7136.		
	68	ACHARYA ET AL., "Method of Using Hue to Interpolate Color Pixel Signals," Filed 6/12/2000, Application No.: 09/591,867, pp. 1-23, Atty. Docket No.: 042390.P8746.		
	69	KIM ET AL., "Method of Performing Motion Estimation," Filed 6/16/2000, Application No.: 09/596,127, pp. 1-28, Atty. Docket No.: 042390.P8747.		
	70	DUNTON ET AL., "Dual Mode Digital Camera for Video and Still Operation," Filed 6/16/2000, Application No.: 09/595,055, pp. 1-30, Atty. Docket No.: 042390.P5079C.		
	71	ACHARYA ET AL., "Method of Compressing an Image," Filed 6/19/2000, Application No.: 09/597,354, pp. 1-23, Atty. Docket No.: 042390.P8760.		
	72	ACHARYA ET AL., "Method of Video Coding the Movement of a Human Face from a Sequence of Images," Filed 6/30/2000, Application No.: 09/608,989, pp. 1-25, Atty. Docket No.: 042390.P8762.		
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	74	ACHARYA ET AL., "Model-Based Video Image Coding," Filed 6/30/2000, Application No.: 09/608,991, pp. 1-36, Atty. Docket No.: 042390.P8764.		
	75	TINKU ACHARYA, "Techniques to Implement One-Dimensional Compression," Filed 9/18/2000, Application No.: 09/666,486, pp. 1-18, Atty. Docket No.: 042390.P9921.		
	76	ACHARYA ET AL., "Imaging Device Connected to Processor-Based System Using High-Bandwidth Bus," Filed 11/29/2000, Application No.: 09/726,773, pp. 1-31, Atty. Docket No.: INTL-0494-US (P10274).		
	77	ACHARYA ET AL., "A Method for Block-Based Digital Image Watermarking," Filed 11/29/00, Application No.: 09/727,288, pp. 1-11, Atty. Docket No.: 5038-84 (P10266).		
	78	ACHARYA ET AL., "Color Filter Array & Color Interpolation Algorithm," Filed 11/30/2000, Application No.: 09/727,038, pp. 1-36, Atty. Docket No.: INTL-0512-US (P10263).		
	79	KIM ET AL., "Method of Performing Video Encoding Rate Control," Filed 1/03/2001, Application No.: 09/754,227, pp. 1-28, Atty. Docket No.: 042390.P10264.		

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	80	KIM ET AL., "Method of Performing Video Encoding Rate Control Using Motion Estimation," Filed 1/03/2001, Application No.: 09/754,683, pp. 1-27, Atty. Docket No.: 042390.P10265.		
	81	KIM ET AL., "Method of Performing Video Encoding Rate Control Using Bit Budget," Filed 1/03/2001, Application No.: 09/754,682, pp. 1-25, Atty. Docket No.: 042390.P10587.		
	82	TINKU ACHARYA, "Multiplierless Pyramid Filter," Filed 1/03/2001, App. No.: 09/754,684, pp. 1-22, Atty. Docket No.: 042390.P10722.		
	83	ACHARYA ET AL., "Image Retrieval Using Distance Measure," Filed 3/23/2001, Application No.: 09/817,000, pp. 1-28, Atty. Docket No.: INTL-0542-US (P10975).		
	84	TINKU ACHARYA, "Two-Dimensional Pyramid Filter Architecture," Filed 3/26/2001, Application No.: 09/817,711, pp. 1-32, Atty. Docket No.: 042390.P11275.		
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	87	TINKU ACHARYA, "Two-Dimensional Pyramid Filter Architecture," Filed 3/30/2001, Application No.: 09/823,390, pp. 1-38, Atty. Docket No.: 042390.P11277.		
	88	TINKU ACHARYA, "Two-Dimensional Pyramid Filter Architecture," Filed 4/30/2001, Application No.: 09/846,609, pp. 1-37, Atty. Docket No.: 042390.P11474.		
	89	TAN ET AL., "Reduction of Ringing Artifacts After Decompression of a DWT-Based Compressed Image," Filed 5/22/2001, Application No.: 09/863,478, pp. 1-24, Atty. Docket No.: 042390.P6220D.		
	90	ACHARYA ET AL., "Method & Apparatus for Coding of Wavelet Transformed Coefficients," Filed 5/29/2001, Application No.: 09/867,781, pp. 1-44, Atty. Docket No.: 042390.P11706.		
	91	ACHARYA ET AL., "Method & Apparatus for Three-Dimensional Wavelet Transform," Filed 5/29/2001, Application No.: 09/867,784, pp. 1-30, Atty. Docket No.: 042390.P11707.		
	92	TINKU ACHARYA, "Techniques to Implement Two-Dimensional Compression," Filed 9/18/2000, Application No.: 09/664,131, pp. 1-24, Atty. Docket No.: 042390.P9922.		
	93	TINKU ACHARYA, "SAD Computation Architecture," Filed 9/29/2000, Application No.: 09/677,829, pp. 1-24, Atty. Docket No.: 042390.P9823.		

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	94	TINKU ACHARYA, "SAD Computation Architecture," Filed 9/29/2000, Application No.: 09/677,830, pp. 1-27, Atty. Docket No.: 042390.P9824.	
	95	ACHARYA ET AL., "A Method of Generating Huffman Code Length Information," Filed 10/31/2000, Application No.: 09/704,392, pp. 1-25, Atty. Docket No.: 042390.P9804.	
	96	ACHARYA ET AL., "A Method of Performing Huffman Decoding," Filed 10/31/2000, Application No.: 09/704,380, pp. 1-26, Atty. Docket No.: 042390.P9820.	
	97	ACHARYA ET AL., "Method of Generating a Length-Constrained Huffman Code," Filed 11/30/2000, Application No.: 09/705,314, pp. 1-17, Atty. Docket No.: 042390.P10245.	
	98	TINKU ACHARYA, "Method & Apparatus for Two-Dimensional Seperable Symmetric Filtering," Filed 11/15/2000, Application No.: 09/713,663, pp. 1-20, Atty. Docket No.: 5038-80 (P10409).	
	99	TINKU ACHARYA, "Method & Apparatus for Multiply-Accumulate Two-Dimensional Separable Symmetric Filtering," Filed 11/20/2000, Application No.: 09/718,877, pp. 1-13, Atty. Docket No.: 5038-83 (P10545).	
	100	ACHARYA ET AL., "Developing an Euler Vector for Images," Filed 11/27/2000, Application No.: 09/722,979, pp. 1-45, Atty. Docket No.: INTL-0495-US (P10405).	
	101	ACHARYA ET AL., "Computing the Euler Number of a Binary Image," Filed 11/27/2000, Application No.: 09/722,982, pp. 1-31, Atty. Docket No.: INTL-0493-US (P10273).	
	102	ACHARYA ET AL., "Wavelet Coding of Video," Filed 11/27/2000, Application No.: 09/722,988, pp. 1-40, Atty. Docket No.: INTL-0514-US (P9822).	
	103	ACHARYA ET AL., "Encoding of Wavelet Transformed Error Data," Filed 11/27/2000, Application No.: 09/723,123, pp. 1-38, Atty. Docket No.: INTL-0210-P1-US (P7057X).	
	104	TINKU ACHARYA, "Method & Apparatus for Image Scaling," Filed 7/27/2001, Application No.: 09/917,476, pp. 1-19, Atty. Docket No.: 042390.P11959.	
	105	BECKER ET AL., "Variable Length Coding Packing Architecture," Filed 8/22/2001, Application No.: 09/935,524, pp. 1-29, Atty. Docket No.: 042390.P10891.	
	106	TINKU ACHARYA, "Fast Half-Pixel Motion Estimation Using Steepest Descent," Filed 9/05/2001, Application No.: 09/947,266, pp. 1-18, Atty. Docket No.: 5038-132 (P12517).	
	107	TINKU ACHARYA, "Signal to Noise Ration Optimization for Video Compression Bit-Rate Control," Filed 9/05/2001, Application No.: 09/947,331, pp. 1-25, Atty. Docket No.: 5038-133 (P12524).	

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Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
	108	ACHARYA ET AL., "Method & Apparatus for Providing a Binary Fingerprint Image," Filed 9/13/2001, Application No.: 09/952,284, pp. 1-26, Atty. Docket No.: 042390.P12797.	
	109	ACHARYA ET AL., "Method & Apparatus to Reduce False Minutiae in a Binary Fingerprint Image," Filed 9/13/2001, Application No.: 09/952,249, pp. 1-30, Atty. Docket No.: 042390.P12798.	
	110	ACHARYA ET AL., "Architecture for Processing Fingerprint Images," Filed 9/13/2001, Application No.: 09/952,276, pp. 1-19, Atty. Docket No.: 042390.P12877.	
	111	TINKU ACHARYA, "An Integrated Color Interpolation & Color Space Conversion Algorithm from 8-Bit Bayer Pattern RGB Color Space to 12-Bit YCrCb Color Space," Filed 12/14/2001, Application No.: 10/022,154, pp. 1-32, Atty. Docket No.: 042390.P4818D.	
	112	KIM ET AL., "Method & Apparatus for Video Bit-Rate Control," Filed 12/28/2001, Application No.: 10/039,462, pp. 1-23, Atty. Docket No.: 042390.P11941.	
	113	WANG ET AL., "Progressive Two-Dimensional (2D) Pyramid Filter," Filed 12/28/2001, Application No.: 10/039,434, pp. 1-26, Atty. Docket No.: 042390.P11957.	
	114	ACHARYA ET AL., "Color Video Coding Scheme," Filed 7/25/2002, Application No.: 10/206,908, pp. 1-31, Atty. Docket No.: 042390.P13864.	
	115	ACHARYA ET AL., "Computationally Fast & Efficient DV to DVD Transcoding," Filed 4/11/2002, Application No.: 10/120,799, pp. 1-46, Atty. Docket No.: 042390.P14273.	
	116	ACHARYA ET AL., "Method & Apparatus for Image Retrieval," Filed 4/22/2002, Application No.: 10/128,601, pp. 1-27, Atty. Docket No.: 042390.P14027.	
	117	ACHARYA ET AL., "Method of Integrating a Watermark into a Compressed Image," Filed 7/12/2002, Application No.: 10/194,179, pp. 1-25, Atty. Docket No.: 042390.P7319C.	
	118	TINKU ACHARYA, "Sub-Sampled Infrared Sensor for Use in a Digital Image Capture Device," Filed 2/28/2003, Application No.: 10/376,127, pp. 1-33, Atty. Docket No.: 042390.P14907.	
	119	ACHARYA ET AL., "Image Color Matching Scheme," Filed 8/02/2002, Application No.: 10/211,161, pp. 1-14, Atty. Docket No.: 042390.P14026.	
	120	ACHARYA ET AL., "Motion Estimation," Filed 9/04/2002, Application No.: 10/235,121, pp. 1-22, Atty. Docket No.: 042390.P12539.	

Examiner Signature	Date Considered
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

†Applicant's unique citation designation number. ‡Applicant is to place a check mark here if English language Translation is attached.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	
Filing Date	September 15, 2003
First Named Inventor	Tinku Acharya
Art Unit	
Examiner Name	
Attorney Docket Number	42P17531X

Sheet 9 of 9

[illegible]Date  
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